

coreactant, wherein said coreactant undergoes oxidation to form a reductant or reduction to form an oxidant, such that said compound emits electrochemiluminescence when exposed to electrochemical energy.

21. Please delete.
26. (New) The compound of claim 4, wherein said label comprises a single metal ion.
27. (New) The compound of claim 3 or 4, wherein said ECL label and said coreactant are directly linked via a functional group of said ECL label or said coreactant.
28. (New) The compound of claim 3 or 4, wherein said ECL label and said coreactant are linked via linker comprising a polymer, a polypeptide chain, a polynucleic acid, a polysaccharide, an oligo-ethylene glycol group, or a combination thereof.
29. (New) The compound of claim 3, wherein said ECL label and said coreactant are directly linked via a linkage comprising one or more linking groups selected from the group consisting of NHS-esters, carboxylic acids, amines, thiols, disulfides, maleimides, hydroxides and combinations thereof.
30. (New) The compound of claim 3, wherein said compound is linked to a biomolecule.
31. (New) The compound of claim 3, wherein said compound consists essentially of said ECL label and said coreactant.
32. (New) The compound of claim 3, wherein said ECL label is oxidized by exposure to electrochemical energy and said coreactant is a reductant or a reductant precursor.
33. (New) The compound of claim 3, wherein said ECL label is reduced by exposure to electrochemical energy and said coreactant is an oxidant or oxidant precursor.